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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|---|-------------------------------------|----------------------|------------------------|------------------|--|--|
| 10/608,081 | 06/30/2003 | Kye Nam Lee | 40296-0024 | 7874 | | |
| 26633 | 7590 11/07/2005 | EXAMINER | | | | |
| HELLER EHRMAN WHITE & MCAULIFFE LLP | | | VINH, | VINH, LAN | | |
| | ISLAND AVE, NW ON, DC 20036-3001 | | ART UNIT | PAPER NUMBER | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , 20 2 | | 1765 | | | |
| | | | DATE MAILED: 11/07/200 | 5 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Advisory Action | | | | | | |
|--------------------------------------|--|--|--|--|--|--|
| Before the Filing of an Appeal Brief | | | | | | |

| Application No. | Applicant(s) |
|-----------------|--------------|
| 10/608,081 | LEE ET AL. |
| Examiner | Art Unit |
| Lan Vinh | 1765 |

| | Lan Vinh | 1765 | |
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| The MAILING DATE of this communication appear | ars on the cover sheet with the d | orrespondence addr | ess |
| THE REPLY FILED 25 October 2005 FAILS TO PLACE THIS A | PPLICATION IN CONDITION FOR | R ALLOWANCE. | |
| 1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in complianc time periods: | ving replies: (1) an amendment, aft tice of Appeal (with appeal fee) in t e with 37 CFR 1.114. The reply m | fidavit, or other evidend compliance with 37 CF | ce, which R 41.31; or (3) |
| a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this Ai no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (I TWO MONTHS OF THE FINAL REJECTION. See MPEP 70 | dvisory Action, or (2) the date set forth tter than SIX MONTHS from the mailin b). ONLY CHECK BOX (b) WHEN THE | g date of the final rejectio | n. |
| Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the size forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL | ension and the corresponding amount hortened statutory period for reply orig than three months after the mailing da | of the fee. The appropria inally set in the final Office | ite extension fee e action; or (2) as |
| The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed | nsion thereof (37 CFR 41.37(e)), to | avoid dismissal of the | s of the date of appeal. Since |
| AMENDMENTS | | | |
| The proposed amendment(s) filed after a final rejection, to the control of the cont | nsideration and/or search (see NO w); | TE below); | |
| (c) They are not deemed to place the application in bett | ter form for appeal by materially re | ducing or simplifying the | ne issues for |
| appeal; and/or (d) ☐ They present additional claims without canceling a c | corresponding number of finally rei | ected claims | |
| NOTE: (See 37 CFR 1.116 and 41.33(a)). | corresponding number of infany rej | colou ciaims. | |
| 4. The amendments are not in compliance with 37 CFR 1.12 | 21. See attached Notice of Non-Co | ompliant Amendment (f | PTOL-324). |
| 5. Applicant's reply has overcome the following rejection(s): | | (| |
| Newly proposed or amended claim(s) would be all non-allowable claim(s). | owable if submitted in a separate, | • | J |
| 7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: | | Il be entered and an ex | xplanation of |
| Claim(s) rejected: <u>1-3</u> . | | | |
| Claim(s) withdrawn from consideration: | | | |
| AFFIDAVIT OR OTHER EVIDENCE The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). | d sufficient reasons why the affida | vit or other evidence is | necessary and |
| The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary | vercome all rejections under appe | al and/or appellant fails | s to provide a |
| 10. The affidavit or other evidence is entered. An explanation | n of the status of the claims after e | ntry is below or attache | ed. |
| REQUEST FOR RECONSIDERATION/OTHER | | | |
| 11. The request for reconsideration has been considered but See Continuation Sheet. | | | ce because: |
| 12. Note the attached Information Disclosure Statement(s). (13. Other: | PTO/SB/08 or PTO-1449) Paper N | lo(s) | |
| | | Lan Vinh AU 1765 | |

U.S. Patent and Trademark Office PTOL-303 (Rev. 7-05)

Continuation Sheet (PTO-303)

Continuation of 11. does NOT place the application in condition for allowance because: Applicants arguments presented in the response, filed on 10/25/2005, has been considered but are not persuasive. The aplicants argue that the stacked structure in Durlam is different from the claimed stacked structure because Durlam discloses a top metal layer 48 over the free magnetic layer 46 while the present invention comprises a hard mask 51 over the free magnetic layer. This argument is unpersuasive because as seen in fig. 7 of Durlam, metal layer 48 covers/masks the magnetic layer 46 which certainly reads on forming a hard mask on the free magnetic layer as required in claim 1. Applicants further argue that the present invention comprises a stacked structure where the insulating spacer is formed over the barrier layer 55 while in Durlam, the spacer is formed over the barrier layer 55. This argument is unpersuasive for the following reasons: the argument does not commensurate with the scope of claim 1 since claim 1 does not recite forming the insulating spacer over the barrier layer, Durlam discloses forming spacer 50 on a sidewall of the layer 48/hard mask and the layer 46/free magnetic layer (fig. 11) as required by claim 1. Thus, the examiner asserts that the method step of the instant invention are not distinct from the disclosed method of Durlam.